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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/087,278	03/01/2002	Guolin Ma	10003645-1	3085

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AGILENT TECHNOLOGIES, INC.  
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EXAMINER

MAI, HUY KIM

ART UNIT	PAPER NUMBER
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2873

DATE MAILED: 11/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/087,278

Applicant(s)

MA ET AL.

Examiner

Huy K. Mai

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 01 November 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,4-12 and 15-20 is/are rejected.
- 7) ☒ Claim(s) 2,3,13 and 14 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 April 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

**DETAILED ACTION**

***Withdrawn the finality***

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and the newly found reference (JP 11-183794) cited in the previous action has not applied, therefore, the finality of that action is withdrawn.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1,5-12,16-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Kitagawa et al (JP 11-183794).

The limitations in claims 1,9,10,12,20 are shown in Kitagawa et al's Fig.1. Kitagawa et al discloses a lens 1 comprising a first surface 2 and a second surface 3 wherein the first and second surfaces are aspherical surfaces, the first surface is a diffraction surface 4 wherein the lens provides a short focal distance 5mm and capable of compensating chromatic aberration.

Regarding claims 5,16, Kitagawa et al shows, in Fig. 1, the lens 1 has an aperture 5 and a focal plane 6.

Regarding claims 6-8,17-19, Kitagawa et al discloses in Fig.1 an aperture 5 positioned at a predetermined distance from the first surface of the lens. Thus Kitagawa et al inherently discloses a vignetting reducing mechanism.

***Claim Rejections - 35 USC § 103***

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4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2,3,13,14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kitagawa et al in view of T. Kitagawa (6,507,443).

Kitagawa et al discloses the single lens comprising first and second aspherical surfaces wherein the first aspherical surface including a diffraction surface for providing a short focal distance and 5mm and capable of compensating chromatic aberration. However Kitagawa et al's first lens surface is a convex surface instead of a concave surface as claimed in the applicant. T. Kitagawa discloses a single lens having a first concave aspherical surface and a second convex aspherical surface for providing a short focal distance wherein the total length distance from the aperture iris to the image sensor is equal to or less than 6 mm. Therefore, it would have been obvious at the time the invention was made to those skill in the art to modify the Kitagawa et al's lens in light of T.Kitagawa by forming the first surface being concave as taught by T.Kitagawa for providing a lens having a short focal lens distance as disclosed by Kitagawa et al as the same as the applicant does.

***Allowable Subject Matter***

5. Claims 4 and 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Yoon (2002/0167628) discloses in page 4, column 1, the holographic film diffracts light to reduce the incident angle of the incident light.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huy Mai whose telephone number is (571) 272-2334. The examiner can normally be reached on M-F (8:00 a.m.-4:30 p.m.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky L. Mack can be reached on (571) 272-2333. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1562.



Huy Mai  
Primary Examiner  
Art Unit 2873

HKM/  
November 21, 2005